

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
11 March 2004 (11.03.2004)

PCT

(10) International Publication Number  
WO 2004/020607 A3

(51) International Patent Classification<sup>7</sup>: A61K 35/12,  
48/00, C12Q 1/68, G01N 33/53, 33/574

(21) International Application Number:  
PCT/US2003/027338

(22) International Filing Date: 29 August 2003 (29.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/407,852 30 August 2002 (30.08.2002) US

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(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

(88) Date of publication of the international search report:  
26 August 2004

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: SPAN-Xb GENE AND PROTEIN FOR THE DIAGNOSIS AND TREATMENT OF CANCER

(57) **Abstract:** The present invention relates to methods for diagnosing cancer in a subject. The method involves obtaining a biolog-  
ical sample from a subject and measuring SPAN-Xb expression level in the biological sample. The SPAN-Xb expression level in the  
biological sample is compared to the SPAN-Xb expression level in a control sample from a subject devoid of cancer, where a greater  
SPAN-Xb expression level in the biological sample compared to the SPAN-Xb expression level in the control sample is indicative  
of the subject having cancer. Methods for monitoring progression/regression of cancer in a subject are also disclosed. The present  
invention also relates to methods of treating a subject with cancer. The method involves administering to the subject a therapeutically  
effective amount of an agent capable of eliciting an immunological response against SPAN-Xb protein or specifically recognizing a  
SPAN-Xb protein, under conditions effective to treat a cancer characterized by cells expressing SPAN-Xb.



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